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|--|---------------------------------------|--|-----------------------------------|-----------------------|
| 1.Component NAVY | FY 2005 MILITARY CONSTRUCTION PROGRAM | | | 2.Date 13 JAN 2004 |
| 3. Installation and Location/UIC: M62573 MARINE CORPS AIR STATION NEW RIVER JACKSONVILLE, NORTH CAROLINA | | 4. Project Title AIRCRAFT MAINTENANCE TRAINING FACILITY | | |
| 5.Program Element 0216456M | 6.Category Code 17120 | 7. Project Number P648 | 8. Project Cost (\$000) 12,090 | |
| 9. COST ESTIMATES | | | | |
| Item | UM | Quantity | Unit Cost | Cost(\$000) |
| AIRCRAFT MAINTENANCE TRAINING FACILITY (39,999 SF) | m2 | 3,716 | | 8640 |
| AIRCRAFT MAINTENANCE FACILITY (39,999 SF) | m2 | 3,716 | 2,008.00 | (7460) |
| BUILT-IN EQUIPMENT | LS | | | (860) |
| TECHNICAL OPERATING MANUALS | LS | | | (140) |
| INFORMATION SYSTEMS | LS | | | (90) |
| ANTI-TERRORISM/FORCE PROTECTION | LS | | | (90) |
| SUPPORTING FACILITIES | | | | 2220 |
| SPECIAL FOUNDATION FEATURES | LS | | | (330) |
| ELECTRICAL UTILITIES | LS | | | (340) |
| MECHANICAL UTILITIES | LS | | | (640) |
| PAVING AND SITE IMPROVEMENTS | LS | | | (860) |
| SITE PREPARATIONS | LS | | | (50) |
| SUBTOTAL | | | | 10860 |
| CONTINGENCY (5%) | | | | 540 |
| TOTAL CONTRACT COST | | | | 11400 |
| SIOH (6%) | | | | 680 |
| SUBTOTAL | | | | 12080 |
| TOTAL REQUEST ROUNDED | | | | 12080 |
| TOTAL REQUEST | | | | 12090 |
| 10. Description of Proposed Construction | | | | |
| <p>Construct a single-story concrete masonry unit (CMU) building on reinforced concrete slab on pile foundation with structural steel frame, exterior brick and masonry veneer, standing seam metal roof, and CMU interior walls. Project will include three reinforced concrete thrust pads to support each of the maintenance training devices. Construction will include classrooms, administration space, hydraulics/mechanical rooms, tool rooms, maintenance training areas, storage space, a composite repair lab, and a 35' high bay. Built-in equipment includes two monorail hoists and bridge cranes, a compressed air system, hangar area air conditioning, and one 400 hertz power converter. Sustainable principles will be included into the design, development, and construction of the project in accordance with Executive Order 13123 and other laws and executive orders. Electrical systems include fire alarms, exterior site and building lighting, electrical distribution, information systems, telephone, and Electronic Monitoring and Control System (EMCS). Mechanical systems include plumbing, fire protection, and heating ventilation and air conditioning (HVAC). Supporting facilities work includes site and building utility connections (water, telephone, electrical, sanitary and storm sewers, natural gas, cable television, and Local Area Network (LAN)). Paving and site improvements include paved vehicle parking lot and roadways, sidewalks, fencing, grading,</p> | | | | |

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| <p>landscaping and storm water management. Special foundation features include Pile foundations. Also includes Technical Operating Manuals and Anti-Terrorism/Force Protection features.</p> | | | | |
| <p>11. Requirement: <u>3716m2</u> Adequate: <u>0m2</u> Substandard: <u>0m2</u></p> <p>PROJECT: This project constructs an aviation maintenance training facility to house V-22 maintenance facility training devices and classrooms required to meet the student throughput numbers. (Current Mission)</p> <p>REQUIREMENT: Highbay space outfitted with bridge cranes is required to support V-22 maintenance training. The V-22 maintenance facility is tasked with providing maintenance training to all Marine and Air Force V-22 maintenance personnel. Originally, two separate V-22 schoolhouses were planned, one on the East Coast and one on the West Coast. Now MCAS New River will be the only location providing V-22 maintenance training. By FY-2006 student throughput will be over 400 students per year. By 2010 the throughput will increase by more than 25 percent to over 550 students and will continue to increase until 2013 when the Marine Corps completes its transition to the V-22 Osprey.</p> <p>CURRENT SITUATION: There is a shortage of hangar/highbay space to support V-22 maintenance training at MCAS New River. The existing V-22 maintenance training facility, AS-510, only contains enough square footage to house one full size V-22 maintenance training device, the Power Plants Training Article (PPTA), Mechanical Part Task Trainer (PTT), Airframes PTT, and Landing Gear PTT's. This project will house the CV Avionics Composite Maintenance Trainer (CMT), MV Avionics CMT, Mech CMT, and Airframes CMT.</p> <p>IMPACT IF NOT PROVIDED: Without this project, Marine Unit New River will not be able to conduct a large portion of the required hands-on training because it will not be able to train at night or during inclement weather. Most of the complex training tasks, such as troubleshooting, can only be done on the CMTs or aircraft that are to be supported by this project. The amount of hands-on training in relation to the total course of instruction ranges from a low of approximately 47 percent for Avionics and over 52 percent for Mechanics, to a high of 73 percent for Airframes. Past experience shows that any significant degradation in maintenance training will adversely impact safety and operational readiness. Maintenance man-hours will not be as productive as possible and unwarranted replacement of costly aircraft parts and materials will occur. Safety related incidences would likely increase. In addition, V-22 maintenance training equipment will not be housed and</p> | | | | |

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protected from the heat, humidity, and salt air of the harsh coastal climate.

12. Supplemental Data:

A. Estimated Design Data:

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| 1. Status: | |
| (A) Date Design Start | 082002 |
| (B) Date Design 35% Complete | 012004 |
| (C) Date Design Completed | 092004 |
| (D) Percent Completed as of SEPTEMBER 2003 | 2% |
| (E) Percent Completed as of JANUARY 2004 | 35% |
| (F) Type of Design Contract | Design Bid Build |
| (G) Parametric Estimate used to develop cost | Yes |
| (H) Energy study/Life cycle analysis performed | Yes |

2. Basis:

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| (A) Standard or Definitive Design: | No |
| (B) Where Design Was Most Recently Used: | N/A |

3. Total Cost (C) = (A) + (B) = (D) + (E) :

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|--|-------|
| (A) Production of Plans and Specifications | \$869 |
| (B) All other Design Costs | \$652 |
| (C) Total | \$217 |
| (D) Contract | \$869 |
| (E) In-House | \$543 |
| | \$326 |

4. Contract Award 112004

5. Construction Start 122004

6. Construction Complete 042006

B. Equipment associated with this project which will be provided from other appropriations:
NONE

JOINT USE CERTIFICATION:

The Director Land Use and Military Construction Branch, Installations and Logistics Department, Headquarters Marine Corps certifies that this project has been considered for joint use potential. Unilateral Construction is recommended. This Facility can be used by other components on an as available basis; however, the scope of the project is based on Marine Corps requirements.

Activity POC: Randy Scott Phone No: 910-449-5402